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(54) Title: **BACKBONE-SUBSTITUTED BIFUNCTIONAL DOTA LIGANDS, COMPLEXES AND COMPOSITIONS
THEREOF, AND METHODS OF USING SAME**

(57) Abstract: Backbone-substituted 1,4,7,10-tetraaza cyclododecane-*N,N',N'',N'''*-tetraacetic acid compounds, metal complexes thereof, compositions thereof, conjugates thereof, and methods of use in diagnostic imaging and treatment of a cellular disorder.



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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/33, 31/44; A61P 35/00; C07D 225/00, 245/00, 257/02
US CL : 514/183, 300; 540/465, 472, 473, 474

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/183, 300; 540/465, 472, 473, 474

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,E	WO 03/101919 A2 (THE GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES) 11 December 2003, see pages 34-35.	1-27
A	MILENIC et al., In Vivo Comparison of Macrocyclic and Acyclic Ligands for Radiolabeling of Monoclonal Antibodies with ¹⁷⁷ Lu for Radioimmunotherapeutic Applications, Nuclear Medicine and Biology, 2002, Vol. 29, No. 4, pages 431-442, especially page 432.	1-27

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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